

APPENDIX A

SPECIAL USE PERMIT CASE NO. SW04-024



Washoe County
Department of
Community
Development

1001 E. North St., Bldg. A
Post Office Box 11130
Reno, NV 89520-0027
Tel: 775-328-3600
Fax: 775-328-3648

ACTION ORDER

November 4, 2004

Martin Marietta Materials
Attn: Scott Meyer
11059 State Route 445
Sparks, NV 89436

Broken Hill, Inc./Martin Marietta
Attn: Pierre Hascheff
1029 Riverside Drive
Reno, NV 89504

Dear Applicant and Property Owner:

As filed with the Department of Community Development, the Washoe County Planning Commission, at its regular meeting of November 3, 2004, approved the following, with thirty-three (33) conditions:

SPECIAL USE PERMIT CASE NO. SW04-024 (MARTIN MARIETTA MATERIALS PIT) – To allow aggregate quarry operations on the northern 389 acres of a 640-acre parcel in the hills west of Spanish Springs as authorized in Article 332, Aggregate Facilities, of the Washoe County Development Code. Materials extracted will be transported to the existing processing facilities at their Spanish Springs quarry. The expansion area is located approximately one-half mile southwest of the existing aggregate processing facilities, and about one-half mile northeast of Eagle Canyon Drive at its closest point to the site. The parcel is designated General Rural (GR) in the Spanish Springs Area Plan, and is within the Area of Interest of the City of Sparks. The proposed development is situated in Section 21, T21N, R20E, MDM, Washoe County, Nevada. The property is located in the Spanish Springs Citizen Advisory Board boundary and Washoe County Commission District No. 4. (APN: 089-160-03)

The approval of the special use permit was based on the following findings:

1. Consistency. That the proposed use is consistent with the action programs, policies, standards and maps of the Comprehensive Plan and the Spanish Springs Area Plan;
2. Improvements. That adequate utilities, roadway improvements, sanitation, water



Adrian P. Freund,
AICP, Director



Washoe County ... Where Quality Is At Home
"Dedicated to Excellence in Public Service"

Letter to: Martin Marietta Materials/Broken Hill, Inc.
Subject: Special Use Permit SW04-024
Date: November 4, 2004
Page 2

supply, drainage, and other necessary facilities have been provided, the proposed improvements are properly related to existing and proposed roadways, and an adequate public facilities determination has been made in accordance with Division Seven;

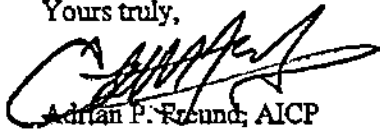
3. Site Suitability. That the site is physically suitable for the type of development and for the intensity of the development;
4. Issuance Not Detrimental. That issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; injurious to surrounding land uses and the environment in general; or detrimental to the character of the surrounding area as conditioned;
5. Special Review Considerations. That the Planning Commission considered the Special Review Considerations as stated in Section 332.20(a)-(j) of the Development Code, listed below, and found that adequate provisions have been made to comply with these considerations:
 - (a) Conservation of topsoil;
 - (b) Protection of surface and subsurface water;
 - (c) Conservation of natural vegetation, wildlife habitats, and fisheries;
 - (d) Control of erosion;
 - (e) Control of drainage and sedimentation;
 - (f) Provision of visual and noise buffering;
 - (g) Accommodation of heavy traffic on roadways;
 - (h) Provision of restoration and/or reuse of the site;
 - (i) Provision of a bonding program commensurate with the total costs of requirements imposed; and
 - (j) Preservation of the recreation opportunities, air quality, archaeological resources, character of the area and other conditions as necessary.
6. Views. That the proposed development will not unduly block scenic views or degrade any surrounding scenic resources;
7. Reclamation. That the proposed development will reclaim the site and all affected areas at the conclusion of the operation;

Letter to: Martin Marietta Materials/Broken Hill, Inc.
Subject: Special Use Permit SW04-024
Date: November 4, 2004
Page 3

8. Reasoned Consideration. That the Planning Commissioners gave reasoned consideration to the information contained within the staff report and information received during the meeting.

Unless appeals are filed in the time period stipulated in the Washoe County Development Code, the decision by the Planning Commission is final.

Yours truly,



Adrian P. Freund, AICP

Director and Secretary to the Planning Commission

APF/RPK/cm (SW04-024f1)

xc: MACTEC Engineering, Attn: Dennis Bryan, 961 Matley Lane, Suite 110, Reno, NV 89502

Blaine Cartlidge, Deputy D.A.; Engineering Division; Health Department; Marge Clausen, Assessor's Office (CAAS); Steve Churchfield, Chief Appraiser, Office of Assessor; Chair, Spanish Springs Citizen Advisory Board; Scott Nebesky, Reno-Sparks Indian Colony; Rob Joiner, City of Sparks Community Development

Letter to: Martin Marietta Materials/Broken Hill, Inc.
Subject: Special Use Permit SW04-024
Date: November 4, 2004
Page 4

**CONDITIONS FOR
SPECIAL USE PERMIT CASE NUMBER SW04-024
MARTIN MARIETTA MATERIALS PIT
(As approved by the Washoe County Planning Commission on November 3, 2004)**

*****IMPORTANT - PLEASE READ*****

UNLESS OTHERWISE SPECIFIED, ALL CONDITIONS MUST BE MET OR FINANCIAL ASSURANCES MUST BE PROVIDED TO SATISFY THE CONDITIONS PRIOR TO SUBMITTAL FOR A BUILDING PERMIT. THE AGENCY RESPONSIBLE FOR DETERMINING COMPLIANCE WITH A SPECIFIC CONDITION SHALL DETERMINE WHETHER THE CONDITION MUST BE FULLY COMPLETED OR WHETHER THE APPLICANT SHALL BE OFFERED THE OPTION OF PROVIDING FINANCIAL ASSURANCES. ALL AGREEMENTS, EASEMENTS, OR OTHER DOCUMENTATION REQUIRED BY THESE CONDITIONS SHALL HAVE A COPY FILED WITH THE COUNTY ENGINEER AND THE DEPARTMENT OF COMMUNITY DEVELOPMENT.

COMPLIANCE WITH THE CONDITIONS OF THIS SPECIAL USE PERMIT IS THE RESPONSIBILITY OF THE APPLICANT, ITS SUCCESSOR IN INTEREST, AND ALL OWNERS, ASSIGNEES, AND OCCUPANTS OF THE PROPERTY AND THEIR SUCCESSORS IN INTEREST. FAILURE TO COMPLY WITH ANY CONDITIONS IMPOSED IN THE ISSUANCE OF THE SPECIAL USE PERMIT MAY RESULT IN THE INSTITUTION OF REVOCATION PROCEDURES.

ANY OPERATIONS CONDITIONS ARE SUBJECT TO REVIEW BY THE DEPARTMENT OF COMMUNITY DEVELOPMENT PRIOR TO THE RENEWAL OF A BUSINESS LICENSE EACH YEAR. FAILURE TO ADHERE TO THE CONDITIONS MAY RESULT IN WITHHOLDING RENEWAL OF THE BUSINESS LICENSE UNTIL CONDITIONS ARE COMPLIED WITH TO THE SATISFACTION OF THE DEPARTMENT OF COMMUNITY DEVELOPMENT.

WASHOE COUNTY RESERVES THE RIGHT TO REVIEW AND REVISE THE CONDITIONS OF THIS APPROVAL SHOULD IT DETERMINE THAT A SUBSEQUENT LICENSE OR PERMIT ISSUED BY WASHOE COUNTY VIOLATES THE INTENT OF THIS APPROVAL.

FOR THE PURPOSES OF CONDITIONS IMPOSED BY WASHOE COUNTY, "MAY" IS PERMISSIVE AND "SHALL" OR "MUST" IS MANDATORY.

Letter to: Martin Marietta Materials/Broken Hill, Inc.
Subject: Special Use Permit SW04-024
Date: November 4, 2004
Page 5

CONDITIONS

1. The applicant shall demonstrate substantial conformance to the approved Mining and Reclamation Plan and the application submittal approved as part of this special use permit. These conditions shall apply only to the extended operations (hereinafter referred to "this special use permit"). The Department of Community Development shall determine compliance with this condition.
2. A copy of the Action Order stating conditional approval of this special use permit shall be attached to all applications for administrative permits issued by Washoe County.
3. The applicant and any successors shall direct any potential purchaser/operator of the site and/or the special use permit to meet with the Department of Community Development to review conditions of approval before the final sale of the site and/or the special use permit. Any subsequent purchaser/operator of the site and/or the special use permit shall notify the Department of Community Development of the name, address, telephone number, and contact person of the new purchaser/operator within 30 days of the final sale.
4. The following note shall be placed on all construction drawings: "Should any prehistoric or historic remains/artifacts be discovered during site development, work shall temporarily be halted at the specific site and the State Historic Preservation Office of the Department of Museums, Library and Arts, and the Reno-Sparks Indian Colony shall be notified. The period of temporary delay shall be defined in the Cultural Resources Management Plan."
5. The applicant, in consultation with the Reno-Sparks Indian Colony, shall contract with a professional cultural resource consultant to prepare a Cultural Resources survey before ground disturbance activity. Should cultural resources be identified, a Cultural Resources Management Plan shall be completed and submitted to the Department of Community Development, the Nevada State Historical Preservation Office, and the Reno-Sparks Indian Colony at least sixty (60) days before any ground disturbance occurs. The Plan shall include provisions to mitigate the adverse impact on cultural resources including, but not limited to, confidentiality of information, cultural overview, date recovery and excavation procedures, Native American involvement and monitoring, and procedures for the care and relocation of any human remains and cultural items discovered on the site. The Plan will not preclude mining the site after mitigation is complete. The Department of Community Development, in consultation with the Reno-Sparks Indian Colony, shall determine compliance with this condition.
6. During the period of operation, the owner and/or operator shall notify the Department of Community Development of seasonal or permanent shutdown occurrences.

Letter to: Martin Marietta Materials/Broken Hill, Inc.
Subject: Special Use Permit SW04-024
Date: November 4, 2004
Page 6

7. Applicant shall in no way increase drainage and/or runoff water to or from any adjacent property. The County Engineer shall determine compliance with this condition.
8. During the period of operation, the owner and/or operator shall provide adequate on-site dust control in the pit area, on stockpiles, on all roads, and the conveyor to the satisfaction of the District Health Department. Applicant shall submit a copy of the air quality operations permit that includes the new quarry to the Department of Community Development before commencing operations in these new areas.
9. After formal commencement of mining in accordance with Condition 32 below, if operations should cease for a period of twelve (12) months, the special use permit shall become null and void. Should the applicant desire to operate after this time period, the applicant will be required to file a new application with the Department of Community Development for appropriate review and approval.
10. A bond in an amount satisfactory to the County Engineer shall be posted with the County to ensure site reclamation in accordance with the approved plans. The bond shall remain in place with the County for a period of three (3) years after reclamation activities are completed to assure vegetation establishment and growth has taken place. Applicant shall ensure that the financial assurance required by the provisions of the special use permit is maintained for the life of the project. The amount of the assurance may be reviewed every five (5) years at the time of project review by the Planning Commission, and may be adjusted as approved by the County Engineer based on concurrent reclamation and the Department of Community Development and County Engineer's approval of the reclaimed area. Should transfer of the site or the special use permit occur without the continuation of the financial assurances, or should the bond lapse without being renewed within thirty (30) calendar days, this special use permit shall become null and void. Applicant shall ensure that the bonding entity notifies the County Engineer before the bond expires or is terminated. The Department of Community Development shall determine compliance with this.
11. After formal commencement of mining in accordance with Condition 32 below, applicant shall submit a yearly compliance report to the Department of Community Development as required in Section 332.30 of the Development Code. In this report, the applicant shall detail how they have complied with each condition of the special use permit. If not in compliance with a particular condition, applicant shall detail how compliance will be reached together with a fixed timeline to reach compliance. Applicant shall also submit a copy of this report to the Reno-Sparks Indian Colony. The Department of Community Development shall determine compliance with this condition.
12. The Planning Commission shall review the conditions of approval at least every five (5) years from the initial special use permit approval date to ensure that the

Letter to: Martin Marietta Materials/Broken Hill, Inc.
Subject: Special Use Permit SW04-024
Date: November 4, 2004
Page 7

conditions of approval adequately provide for compatibility between aggregate operations and surrounding land uses. This review shall conform to the requirements of Section 332.40(a) of the Washoe County Development Code. Any changes resulting from the review by the Planning Commission shall become part of this special use permit. Applicant shall notify the Reno-Sparks Indian Colony of the scheduled date and time of the review before the Planning Commission at least 10 calendar days before the meeting. The Department of Community Development shall determine compliance with this condition.

13. Exported materials shall not be sold without the proper business license. The Community Development Department shall determine compliance with this condition.
14. Rodent and insect control for the retention basin, including vegetation removal, shall be required and shall meet all requirements of the District Health Department.
15. The applicant shall comply with the conditions imposed by the District Health Department.
16. Public access shall be maintained to that portion of Stormy Canyon located on Bureau of Land Management lands for hikers and all-terrain vehicles. The Department of Community Development shall determine compliance with this condition.
17. Applicant shall use reclamation water from the City of Sparks for dust control and landscape irrigation when it becomes available at the site. The Department of Community Development shall determine compliance with this condition.
18. Extraction activities shall be limited along the north and west property boundaries to a setback of at least 200 feet from the property lines as agreed to by the applicant and the Reno-Sparks Indian Colony. A copy of this agreement, signed by both parties, shall be submitted to the Department of Community Development and shall be made a part of this approval. Mining techniques, earthen and/or vegetative berming, and other methods in accordance with the condition of the special use permit shall be employed to minimize visibility from Reno-Sparks Indian Colony lands located north of the Broken Hill mine area. The applicant and the Reno-Sparks Indian Colony may modify this condition upon submittal to the Planning Commission of a written agreement signed by both parties, and following Planning Commission approval of a revised mining plan that has been agreed to in writing by both the Colony and the applicant. The Department of Community Development shall determine compliance with this condition.
19. Topsoil, when encountered, shall be removed, stockpiled in a protected area, and used in slope reclamation. Additional topsoil shall be imported if the on-site

Letter to: Martin Marietta Materials/Broken Hill, Inc.
Subject: Special Use Permit SW04-024
Date: November 4, 2004
Page 8

amount is insufficient to establish growth. These stockpiles shall be either reseeded or otherwise treated to prevent wind and water erosion. The Department of Community Development shall determine compliance with this condition.

20. Concurrent reclamation shall take place during each five-year phase of the project. Slopes that are or will be visible from the Spanish Springs Valley or Eagle Canyon Drive shall be reclaimed before lower, sight-shielding slopes are mined. At a minimum, all mined slopes shall be reclaimed three (3) years before their predicted exposure from Eagle Canyon Drive or the Spanish Springs Valley; the Department of Community Development and the County Engineer must approve any variance to this time requirement, which shall be based on accomplished reclamation in conformance with the conditions of this special use permit. Failure to comply with this condition shall be a violation of this permit, and shall be cause for Washoe County to suspend all operations until the operator/owner complies with this condition. The Department of Community Development shall determine compliance with this condition.
21. Reclaimed slope faces and the floor of the quarry shall be contoured to have a natural appearance by varying the topography both horizontally and vertically and shall not exceed 3:1 in slope; no flat-slope faces or slope planes intersecting at 90-degrees angles shall be permitted. Steeper slopes due to bedrock outcroppings may be allowed on a case-by-case basis, and must be approved by the Department of Community Development and the County Engineer; such exceptions shall be limited in size and number, and shall be contoured as much as possible to resemble natural outcroppings. The Department of Community Development shall determine compliance with this condition.
22. Seed type, mix, and application quantity used in reclamation shall require approval of the Washoe-Storey Conservation District and the County Engineer before application. All disturbed land shall be contoured and seeded no later than the month of March in the Spring or the month of November in the Fall of the year that mining activities in the area are completed. For slopes greater than 3:1 around rock outcroppings, the revegetation plan shall require the use of a "jute" erosion control blanket under the seed mix or other approved method of soil stabilization to be used in conjunction with the reseeding to promote growth and soil stabilization. Slopes that are visible from the valley or roadway shall have juniper trees planted randomly to match the amount of growth on surrounding, undisturbed terrain. The Department of Community Development shall approve the number of trees and their location. At least one-half of all evergreen trees shall be at least seven (7) feet in height, and the remainder must be at least five (5) feet in height at the time of planting. Temporary irrigation shall be provided until all vegetation required in this condition is established to the satisfaction of the Department of Community Development. The Department of Community Development shall determine compliance with this condition.

Letter to: Martin Marietta Materials/Broken Hill, Inc.
Subject: Special Use Permit SW04-024
Date: November 4, 2004
Page 9

23. All slopes created because of road and conveyor construction shall be immediately stabilized and reseeded. The Department of Community Development shall determine compliance with this condition.
24. Before commencement of operations in the quarry extension, a revised mining and reclamation plan shall be submitted for approval by the Department of Community Development and the County Engineer, and shall contain, at a minimum, the requirements contained in Conditions 18 through 23 above. Operations shall not commence until written approval of the revised plans has been received from the Department of Community Development.
25. Applicant shall obtain all required approvals and permits from the U.S. Bureau of Land Management for access across its land for the roadway and conveyor. The Department of Community Development shall determine compliance with this condition.
26. On-site signs shall conform to code requirements and shall be approved by the Department of Community Development before their installation.
27. Blasting, if required, shall be limited to Mondays through Fridays during the hours of 10:00 AM to 3:00 PM. The Department of Community Development shall determine compliance with this condition.
28. All lighting shall be down-shielded and shall not spill over to adjacent properties. The Department of Community Development shall determine compliance with this condition.
29. In no instance shall Eagle Canyon Drive be used as a route of ingress or egress to the quarry by vehicular traffic. The Department of Community Development shall determine compliance with this condition.
30. The following conditions shall be completed to the satisfaction of the Engineering Division:
 - a. For mining operations, the developer shall obtain from the Nevada Division of Environmental Protection a Stormwater Discharge Permit for mining and submit a copy to the Engineering Division before mining commences.
 - b. A restoration bond of \$1,200 per acre of disturbed area shall be provided to the Engineering Division before mining activities commence.
 - c. Cross-sections indicating cuts and fills shall be submitted before mining activities commence.

Letter to: Martin Marietta Materials/Broken Hill, Inc.
Subject: Special Use Permit SW04-024
Date: November 4, 2004
Page 10

- d. An approved Occupancy Permit shall be obtained from the Nevada Department of Transportation (NDOT) for access to, from, or under roads and highways maintained by NDOT, and a copy of said permit sent to the Engineering Division.
31. The following items must be completed to the satisfaction of the Reno Fire Department:
- a. The following note shall be placed on the mining plan: Due to response time and the lack of fire protection water, structures built on these parcels shall be equipped with an automatic extinguishing system meeting the approval of the Reno Fire Department.
 - b. Fire fuel breaks meeting the approval of the Reno Fire Department shall be provided and maintained around all structures and machinery.
32. Applicant shall submit written notification to the Department of Community Development and to the County Engineer before formal commencement of extraction of mineral resources occurs in the extended quarry area.
33. Failure to comply with any of the conditions of approval shall be considered a violation of the Development Code and, subject to the provisions of Article 910, Enforcement, of the Development Code, may result in the institution of revocation procedures by the Board of County Commissioners.

END OF CONDITIONS

APPENDIX B

NEVADA NATURAL HERITAGE PROGRAM
DATA REQUEST LETTER

ALLEN BIAGGI
Director

Department of Conservation
and Natural Resources

JENNIFER E. NEWMARK
Administrator

JIM GIBBONS
Governor



Nevada Natural Heritage Program
Richard H. Bryan Building
901 S. Stewart Street, suite 5002
Carson City, Nevada 89701-5245
U.S.A.

tel: (775) 684-2900
fax: (775) 684-2909



STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
Nevada Natural Heritage Program
<http://heritage.nv.gov>

15 October 2008

Lee Turner
Tetra Tech EMI
639 Isbell Road, Suite 390
Reno, NV 89509

RE: Data request received 10 October 2008

Dear Mr. Turner:

We are pleased to provide the information you requested on endangered, threatened, candidate, and/or at risk plant and animal taxa recorded within or near the Martin Marietta Mine EA project. We searched our database and maps for the following, a five kilometer radius around:

Townships 21N Range 20E Section 15

There are no at risk taxa recorded within the given area. However, habitat may be available for the Townsend's big-eared bat, *Corynorhinus townsendii*, a Nevada Bureau of Land Management Sensitive Species. We do not have complete data on various raptors that may also occur in the area; for more information contact Ralph Phenix, Nevada Division of Wildlife at (775) 688-1565. Please note that all cacti, yuccas, and Christmas trees are protected by Nevada state law (NRS 527.060-.120), including species not tracked by this office.

Please note that our data are dependent on the research and observations of many individuals and organizations, and in most cases are not the result of comprehensive or site-specific field surveys. Natural Heritage reports should never be regarded as final statements on the taxa or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

Thank you for checking with our program. Please contact us for additional information or further assistance.

Sincerely,

Eric S. Miskow
Biologist III/Data Manager

APPENDIX C

WEBBER'S IVESIA (*IVESIA WEBBERI*) SURVEY REPORT

Webber's Ivesia Survey Report



Martin Marietta Materials
Spanish Springs Quarry
Mineral Material Sales, Conveyor Belt-Access Road Right-of-Way
Right-of-Way Application #N-78985-2800 NV

Submitted to



**U.S. Department of the Interior
Bureau of Land Management
Carson City District Office
Sierra Front Field Office
Bureau of Land Management
5665 Morgan Mill Road
Carson City, NV 89701**

February 2010

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION	1
2.0 METHODOLOGY	4
2.1 Pre-Survey Data Review	4
2.2 Habitat Description	6
3.0 SURVEY RESULTS AND CONCLUSIONS.....	7
4.0 REFERENCES	9

LIST OF FIGURES

FIGURE 1	GENERAL PROJECT LOCATION MAP.....	2
FIGURE 2	PROJECT AREA AND AREA SURVEYED FOR THE WEBBER IVESIA.....	3
FIGURE 3	WEBBER'S IVESIA (WITHAM 2000).....	4
FIGURE 4	KNOWN LOCATIONS WEBBER'S IVESIA IN WASHOE COUNTY, NEVADA.....	5
FIGURE 5	KNOWN LOCATION OF WEBBER'S IVESIA POPULATION AND ASSOCIATED HABITAT	6
FIGURE 6	NORTHWEST VIEW OF PROJECT SITE.....	7
FIGURE 7	VIEW OF PROJECT SITE LOCATION FROM STORMY CANYON TO THE SOUTH	8

1.0 INTRODUCTION

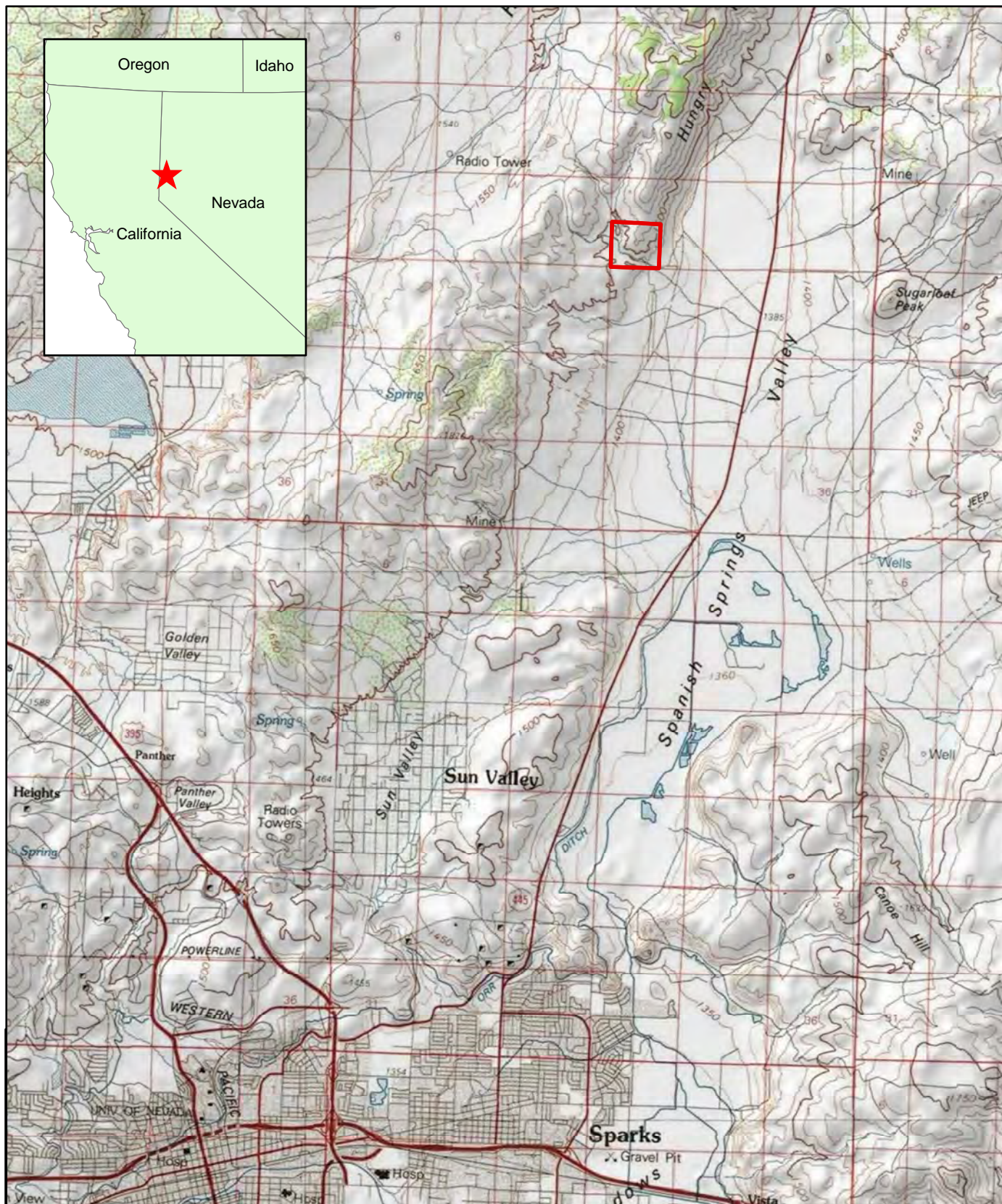
As part of the Environmental Assessment (EA) program to assess the proposed mineral material sale at Martin Marietta Materials' Spanish Springs Quarry, the Sierra Front Field Office of the U.S. Department of the Interior, Bureau of Land Management (BLM) required the completion of a special status plant survey of the quarry site. The purpose of the survey was to determine if Webber's Ivesia (*Ivesia webberi*), or its associated habitat, is established at the Quarry. This species is a Federal candidate species under the 1973 Endangered Species Act, as amended.

The quarry site is located approximately 8.0 miles north of Sparks, Nevada in Washoe County. Access to the site is via the Sha-Neva Road, approximately 1.5 miles west of the junction with State Route 445 (Pyramid Highway). The 160-acre quarry site is located in the southwest ¼ of Section 15, Township 21 North, Range 20 East, Mount Diablo Baseline and Meridian. The quarry site is located on public lands managed by the BLM. Quarry operations are conducted under a Mineral Materials Sale (Contract No. N-74651). Approximately 42 acres of the site are currently disturbed as an active quarry for high quality construction aggregate. Figure 1 illustrates the general location of the project area.

Coordination with the U.S. Fish and Wildlife Service in 2008, and a review of the range and habitat requirements of listed and candidate species occurring in Washoe County, indicated that the project area could contain potential habitat for candidate species, Webber's Ivesia. The listing of a species as "candidate" indicates conclusive biological information is not presently sufficient to warrant either a proposal for listing the species as threatened or endangered or removal from consideration for possible future listing. Although candidate species have no formal protection under the 1973 Endangered Species Act as amended, Federal land management agencies have management policies to assure that these species do not become listed as threatened or endangered.

Martin Marietta Materials contracted with Tetra Tech to complete the special status plant survey to determine if Webber's Ivesia is established on the quarry site; or if the quarry site supports suitable habitat for the plant species. The survey was completed on April 16 and May 26, 2009. Figure 2 illustrates the project area and the areas surveyed for the Webber's Ivesia.

The following sections summarize the pre-survey data collections, a description of habitat requirements for the Webber's Ivesia, and the survey results.



Legend

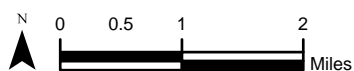
Project Area- Spanish Springs Quarry



Spanish Springs Quarry




FIGURE 1

Project Location





Legend

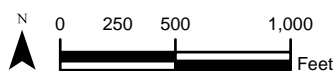
-  Survey Area
-  Mineral Material Sale Area
-  Conveyor Belt and Right of Way Location



Spanish Springs Quarry

FIGURE 2

Area Surveyed for
Webber's Ivesia
Conducted 5-26-2009
SW ¼ of Section 15, T21N, R20E
Washoe County, Nevada



2.0 METHODOLOGY

2.1 *Pre-Survey Data Review*

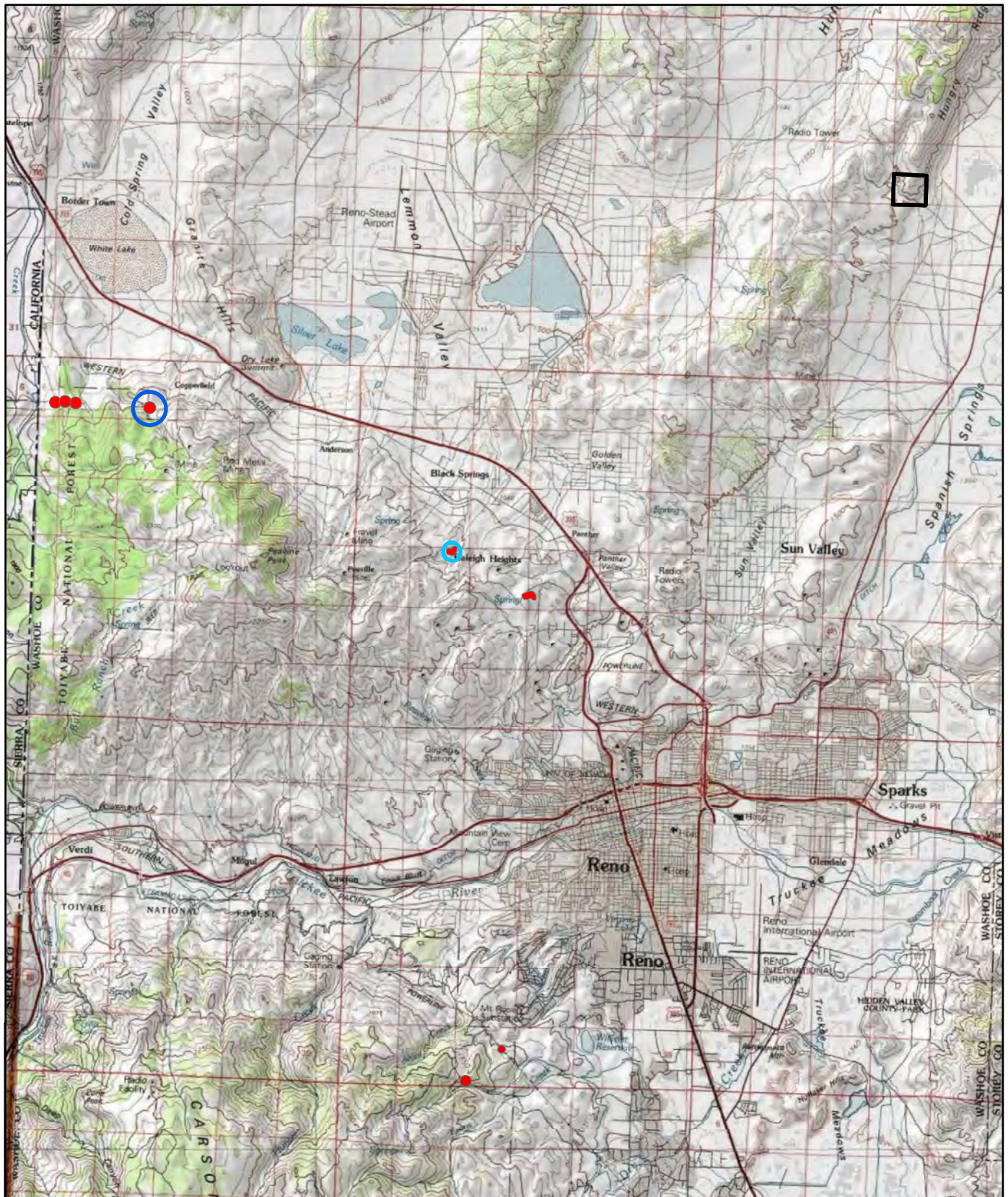
The Nevada Natural Heritage Program (NNHP) maintains a database of state and federal listed species. A query of this database was performed in April 2009. This query indicated there are no known occurrences of Webber's Ivesia on the quarry site.

A literature review for information pertaining to Webber's Ivesia was also completed. Plant phenology was researched to ensure the survey would be completed at the appropriate time of year to allow positive species identification in the field. Plant characteristics including habitat requirements, associated plant species, and previously recorded locations of the species the location were identified. Photographs and illustrations of the species were also reviewed for field identification purposes (see Figure 3 for a photograph of Webber's Ivesia). Figure 4 illustrates the known locations of Webber's Ivesia in Washoe County.

Two previously recorded locations of the species in Washoe County were visited on April 16 and May 26, 2009, prior to the surveys at the Spanish Springs quarry to observe potential habitat and the flowering plant. During these visits, information including associated vegetation communities, slope, aspect, and soil types was recorded to assist in the quarry survey. Webber's Ivesia was identified flowering during the site visit on May 26, 2009 (Figure 5).

FIGURE 3
WEBBER'S IVESIA (WITHAM 2000)





Legend

- Known Populations of Webber's Ivesia
- Site visited April 16, 2009- flowering plant not observed
- Site visited May 26, 2009- flowering plant observed
- Spanish Springs Quarry



Spanish Springs Quarry

FIGURE 4

Known populations of
Webber's Ivesia
Source: Nevada Natural Heritage
Program 4/2009

FIGURE 5
KNOWN LOCATION OF WEBBER'S IVESIA POPULATION
AND ASSOCIATED HABITAT



Note: On northeast flank of Peavine Mountain. Population is located in a dwarf perennial herb and grass community, indicated by the black arrow. Note gentle slopes.

2.2 *Habitat Description*

Webber's Ivesia has been identified in Lassen, Plumas, and Sierra Counties, California, and Douglas and Washoe Counties, Nevada (Witham 2000). The identified populations in Washoe County are located approximately 9 to 16 miles to the south and southwest from the quarry site, on the northwest and eastern flanks of Peavine Mountain, and northeast flanks of Mount Rose, respectively. Figure 5 presents a photograph of a known Webber's Ivesia population, and associated habitat, that was documented flowering in May 2009 on the northeast flanks of Peavine Mountain in Washoe County, Nevada.

Webber's Ivesia is restricted to shallow, clayey soils, with a rocky pavement-like surface. These soils are derived from andesitic rock. It is known to occur on benches and terraces at mid elevations (4480 to 5950 feet) that have no accumulation of colluvium from upslope. This species usually co-dominates with other, mostly dwarfed perennial herbs, grasses, and shrubs. The vegetation communities found with Webber's Ivesia generally include low sagebrush, dwarf everlasting, squirrel tail grass, Douglas's dwarf draba, bitterroot, and sagebrush violet (Witham 2000).

3.0 SURVEY RESULTS AND CONCLUSIONS

The area surveyed at the quarry for Webber's Ivesia was delineated by the footprint of the proposed extent of the 30 year mining plan within Section 15 and the footprint of the proposed location of the conveyor belt and associated access road (see Figure 2). On April 16 and May 26, 2009, the quarry site was surveyed for potential habitat and the actual presence of Webber's Ivesia. During the two days of survey, approximately 90 acres proposed to be disturbed during the continued mining operations and construction of a conveyor belt were walked by qualified botanists and ecologists. Figures 6 and 7 illustrate the area surveyed for potential habitat and for the presence of Webber's Ivesia.

FIGURE 6
NORTHWEST VIEW OF PROJECT SITE



Note: Steep slopes.

FIGURE 7

VIEW OF PROJECT SITE LOCATION FROM STORMY CANYON TO THE SOUTH



Note: Steep slopes.

According to the pre-survey research information, including plant phenology, the survey was completed at the optimal time for plant identification. No occurrence of the plant was found during the survey. The survey indicated that suitable habitat for the plant is not found at the Quarry site. The vegetation communities at the Quarry site are comprised of big sagebrush, juniper, paintbrush, and ephedra. There is a minimal occurrence of other plant species generally associated with Webber's Ivesia at the quarry site. The slopes at the proposed Quarry site are generally steep side hills with colluvium and large rocks.

The results of the survey indicate that the quarry site does not support established populations, or associated habitat, for Webber's Ivesia. The proposed expansion project would not impact the plant species.

4.0 REFERENCES

Witham, C.W. 2000. Current Knowledge and Conservation Status of *Ivesia webberi* Gray (Rosaceae), the Webber Ivesia, in Nevada. Status report prepared for Nevada Natural Heritage Program, Department of Conservation and Natural Resources, 1550 East College Parkway, Suite 145, Carson City, NC 89706 (775) 687 4245, and U. S. Fish and Wildlife Service, Nevada State Office, 1340 Financial Boulevard, Suite 234, Reno, NV 89502 (775) 861 6300. Available online at: <http://heritage.nv.gov/statreps.htm>

APPENDIX D

VISUAL RESOURCE MANAGEMENT CHECKLIST

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

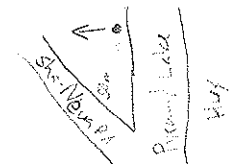
Date 5/26/09

District CCDO / SFFO

Resource Area Spanish Springs

Activity (program) Mineral sales

SECTION A. PROJECT INFORMATION

1. Project Name Martin Marietta EA	4. Location Township 21N Range 20E Section 15	5. Location Sketch Sha-Neva @ Pyramid 
2. Key Observation Point KOP #1		
3. VRM Class III		

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	open wide planar, ridge line	irregular, indistinct	Not visible
LINE	distinct edge of parallel line	continuous	"
COLOR	tan, green, gray	tan brown green	"
TEXTURE	fine, subtle, striated	spotty	"

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	open wide, planar, ridge line	irregular, indistinct	Not visible
LINE	subtle line project edge	continuous	"
COLOR	tan green	tan brown green	"
TEXTURE	fine subtle	fine subtle spotty	"

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM 20-30 yrs

I. DEGREE OF CONTRAST		FEATURES												2. Does project design meet visual resource management objectives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)			
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)							
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None				
ELEMENTS	Form			X				X								X	3. Additional mitigating measures recommended <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Explain on reverse side) Reclamation plans will mitigate at this distance Evaluator's Names Date Lara Niell 5/26/09
	Line			X				X							X		
	Color			X				X							X		
	Texture			X				X							X		



Key Observation Point #1- Mineral Material Sales.

This photo was taken facing west at the intersection of Sha-Neva Road and Pyramid Lake Highway (Hwy 445).

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date 5/26/09

District CCD01 SFFO

Resource Area Spanish Springs

Activity (program) Mineral Sales

SECTION A. PROJECT INFORMATION

1. Project Name Martha Maricotta EA	4. Location Township 21N Range 20E Section 15	5. Location Sketch
2. Key Observation Point KOP #2		
3. VRM Class III		

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	bold, chunky prominent	minimal	—
LINE	horizontal w/ vertical stripes	—	—
COLOR	gray	—	—
TEXTURE	rough	—	—

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	bold, prominent	subtle	—
LINE	terracing	random	—
COLOR	tan, green	tan & green	—
TEXTURE	smooth, 2 point	smooth	—

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM 20-30 yrs

I. DEGREE OF CONTRAST		FEATURES												2. Does project design meet visual resource management objectives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)	3. Additional mitigating measures recommended <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Explain on reverse side) Reclamation plans will mitigate at this stage.		
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)							
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None				
ELEMENTS	Form			X			X								X	Evaluator's Names Lara Niell	Date 5/26/09
	Line				X				X						X		
	Color		X				X								X		
	Texture			X				X							X		



Key Observation Point #2- Mineral Material Sales.

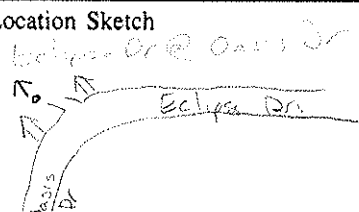
This photo was taken facing northwest at Nimbus Court, near Pileus Road and Billow Drive..

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date 5/26/09
District CCDO / SFFO
Resource Area Spanish Springs
Activity (program) Mineral Sales

SECTION A. PROJECT INFORMATION

1. Project Name <u>Martin Marietta EA</u>	4. Location Township <u>21N</u> Range <u>20E</u> Section <u>15</u>	5. Location Sketch 
2. Key Observation Point <u>KOP #3</u>		
3. VRM Class <u>III</u>		

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	<u>prominent humpback</u>	<u>simple indistinct</u>	<u>indistinct</u>
LINE	<u>undulating, concave, soft</u>	<u>regular weak</u>	<u>band diffuse</u>
COLOR	<u>tan, pastel, gray</u>	<u>tan, green</u>	<u>gray</u>
TEXTURE	<u>smooth, continuous</u>	<u>even, fine, random</u>	<u>medium, dense</u>

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	<u>prominent humpback concave</u>	<u>simple indistinct</u>	<u>indistinct</u>
LINE	<u>undulating, concave</u>	<u>regular, weak</u>	<u>band diffuse</u>
COLOR	<u>tan, gray pastel</u>	<u>tan green</u>	<u>gray</u>
TEXTURE	<u>smooth continuous</u>	<u>fine green random</u>	<u>medium dense</u>

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM 20-30 yrs

I. DEGREE OF CONTRAST		FEATURES												2. Does project design meet visual resource management objectives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)			
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)							
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None				
ELEMENTS	Form			X				X									
	Line			X				X									
	Color			X				X									
	Texture			X				X									
3. Additional mitigating measures recommended <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Explain on reverse side) <u>Reclamation work on site to improve</u>																	
Evaluator's Names <u>Lara Nicell</u>														Date <u>5/26/09</u>			



Key Observation Point #3- Mineral Material Sales.

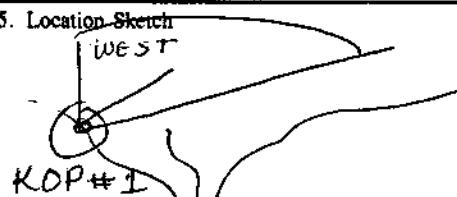
This photo was taken facing west at the intersection of Eclipse Drive and Oasis Drive.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date 12/6/05
District Washoe Co. / Spanish Spr.
Resource Area Rural
Activity (program) Construction

SECTION A. PROJECT INFORMATION

1. Project Name <u>Spanish Springs Conveyor EA</u>	4. Location Township <u>21 N</u> Range <u>20 E</u> Section <u>15</u>	5. Location Sketch 
2. Key Observation Point <u>FROM EAST TO WEST</u>		
3. VRM Class <u>CLASS III</u>		

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	<u>Canyon Hillside</u>	<u>Sparse / Native</u>	<u>none</u>
LINE	<u>Vertical / diagonal</u>	<u>weak</u>	<u>none</u>
COLOR	<u>tans - light brown</u>	<u>brown / dk green</u>	<u>none</u>
TEXTURE	<u>rough (s.) smooth (n)</u>	<u>patchy</u>	<u>none</u>

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	<u>angular / vertical</u>	<u>Sparse</u> <u>PA location removal</u>	<u>conveyor belt / haul road</u>
LINE	<u>vertical / diag.</u>	<u>irregular created by clearing</u>	<u>vertical / horizontal / ang.</u>
COLOR	<u>tans - lt. brown</u>	<u>brown / dk brown + greens</u>	<u>TBD</u>
TEXTURE	<u>rough</u>	<u>patchy</u>	<u>metal / asphalt</u>

SECTION D. CONTRAST RATING ☐ SHORT TERM ☐ LONG TERM

DEGREE OF CONTRAST		FEATURES												2. Does project design meet visual resource management objectives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)		
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)						
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None			
ELEMENTS	Form															3. Additional mitigating measures recommended <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)
	Line															
	Color															
	Texture															

Evaluator's Names

Date

Jill Dale
Sarah Piper

12/6/05

SECTION D. (Continued)

Comments from item 2.

Yes, the design meets VRM requirements. Placement is amended from original plan to not interrupt natural vista or line of sight from adjacent property owners.

Additional Mitigating Measures (See item 3)

- revegetate areas not impacted following construction of PA.
- Stormwater diversion during project.



Key Observation Point #1

Photo taken facing East. This was identified as one of the key observation points. In the distance (east) approximately 3.5 miles is a building (warehouse) at the corner of Sha Neva Road and Pyramid Highway SR445. This is the only location that is visible other than the immediate areas surrounding the site from the north side of the canyon on the hillside approximately 100 ft from the canyon floor.

DEGREE OF CONTRAST		FEATURES												2. Does project design meet visual resource management objectives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)	
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)					
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None		
ELEMENTS	Form		<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	3. Additional mitigating measures recommended <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)	
	Line		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
	Color			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
	Texture		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
		Evaluator's Names												Date	
		Jill Dale												12/6/05	
		Sarah Piper													

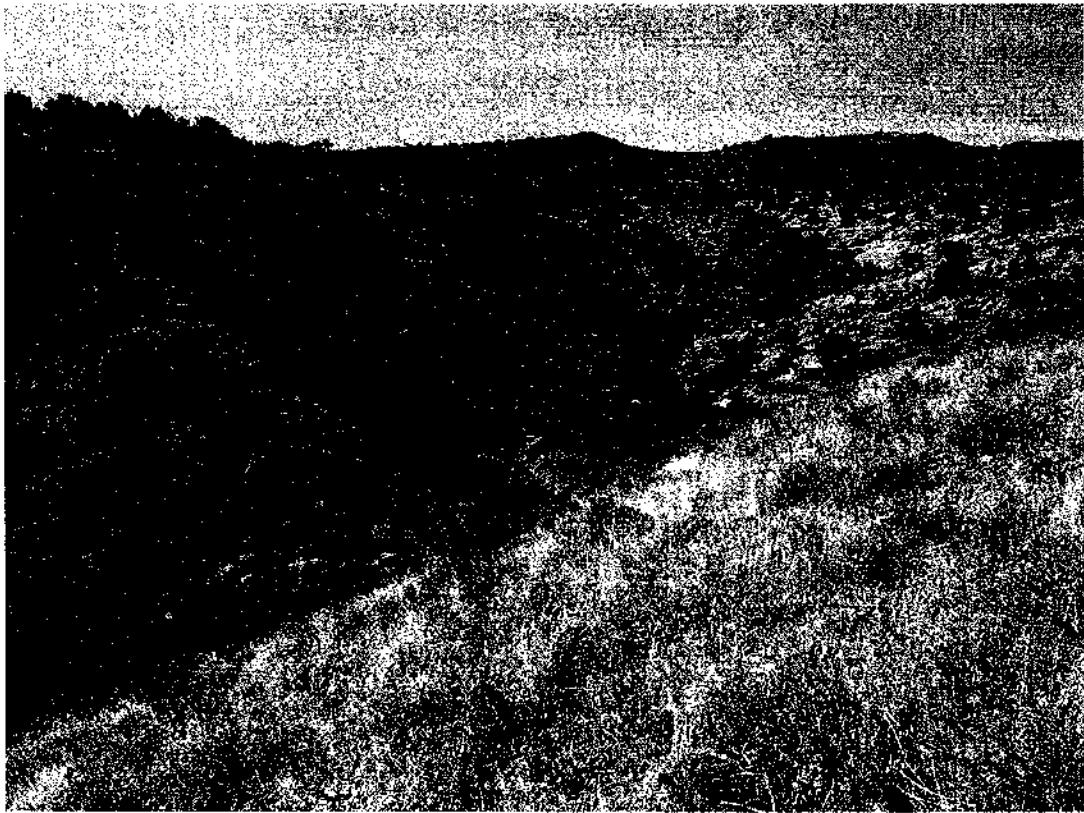
SECTION D. (Continued)

Comments from item 2.

Yes, the design meets VRM requirements. Placement is amended from original plan to not interrupt natural vista or line of sight from adjacent property owners.

Additional Mitigating Measures (See item 3)

- revegetate areas not impacted following construction of PA.
- Stormwater diversion during project.



Key Observation Point #2

Photo taken facing West. This point was identified as one of the key observation points at the site. The location is from the hillside on the northern side of the canyon approximately 100 ft from the canyon floor.